

IN THE CLAIMS:

Claims 1-38 (Canceled)

Claim 39 (New): A manufacturing method of a head gimbal assembly comprising the steps of:

preparing a precise positioning actuator with a pair of movable arms capable of displacing in response to a drive signal applied thereto;

catching a head slider with at least one head element in a space between said movable arms of said actuator; and

fixing said actuator with said caught head slider to said support.

Claim 40 (New): The manufacturing method as claimed in claim 39, wherein the catching step comprises fixing said head slider between said movable arms with an adhesive.

Claim 41 (New): The manufacturing method as claimed in claim 40, wherein a spacing between said pair of movable arms is slightly shorter than a width of said header slider to be caught, and wherein the catching step comprises provisionally fixing said head slider between said movable arms by a pinching force of said movable arms.

Claim 42 (New): The manufacturing method as claimed in claim 41, wherein the catching step comprises securely fixing said head slider to said movable arms by thermally curing the adhesive after the provisional fixing.

Claim 43 (New): The manufacturing method as claimed in claim 39, wherein the fixing step comprises fixing said actuator to said support with an adhesive or a solder.

Claim 44 (New): The manufacturing method as claimed in claim 39, wherein said movable arms have at their top end sections slider fixing sections, and wherein the catching step comprises fixing said slider fixing sections of said movable arms to side surfaces of said head slider, respectively.

Claim 45 (New): The manufacturing method as claimed in claim 44, wherein said actuator has a shape so that there exists air gaps between said movable arms and side surfaces of said head slider except for said slider fixing sections, respectively.

Claim 46 (New): The manufacturing method as claimed in claim 39, wherein said actuator comprises a base fixed to said support, said movable arms extending from said base.

Claim 47 (New): The manufacturing method as claimed in claim 46, wherein said base is made of an elastic sintered ceramic.

Claim 48 (New): The manufacturing method as claimed in claim 47, wherein said elastic sintered ceramic is ZrO_2 .

Claim 49 (New): The manufacturing method as claimed in claim 39, wherein each of said movable arms comprise an arm member made of an elastic sintered ceramic, and a piezoelectric element formed on a side surface of said arm member.

Claim 50 (New): The manufacturing method as claimed in claim 49, wherein said elastic sintered ceramic is ZrO_2 .

Claim 51 (New): The manufacturing method as claimed in claim 39, wherein said actuator has a rough U-plane shape.

Claim 52 (New): The manufacturing method as claimed in claim 39, wherein said actuator has a thickness equal to or less than a thickness of the head slider caught.

Claim 53 (New): The manufacturing method as claimed in claim 39, wherein said at least one head element is at least one thin-film magnetic head element.